What do all these remarkable developments share in common?

Pioneering the Human Genome Project –

The 1986 launch of this historic initiative and development of DNA sequencing and computational technologies that made possible the unraveling of the human genetic code.

Enhancing Security — New holographic computerized imaging technology that identifies hidden weapons, even non-metallic ones, through the clothing of airline passengers.

Solving Energy Challenges through Biotechnology –

Harnessing microbes to develop clean energy and clean up contaminated waste sites.

Medical Imaging — Key advances in positron emission tomography (PET) and magnetic resonance imaging (MRI), which permit non-invasive and improved detection and diagnosis of disease.

Expanding the Frontiers of

Discovery — The revolutionary finding that the expansion of the universe is accelerating, perhaps due to "dark energy," and the discovery of a new form of carbon.

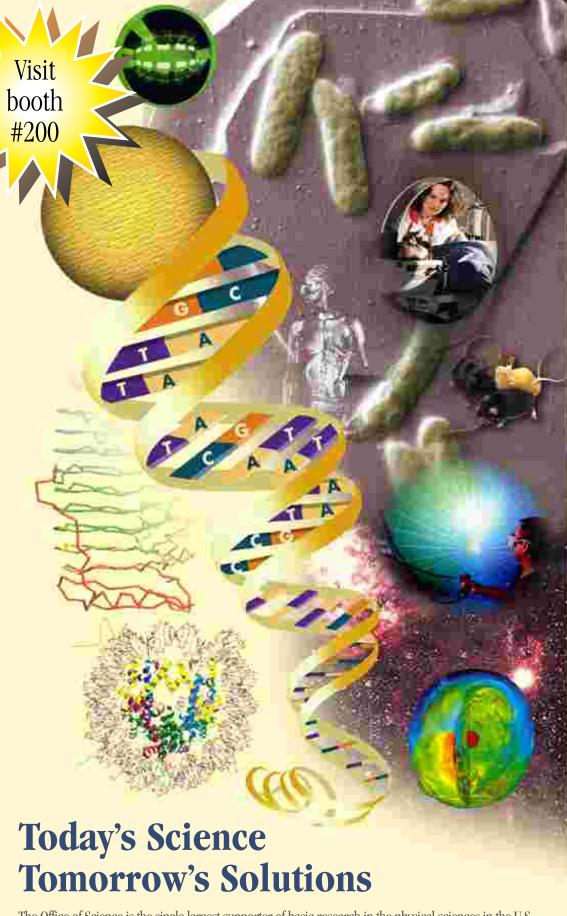
These advances – and many more – have been achieved through the basic research and development programs sponsored by the U.S. Department of Energy's Office of Science.



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